Math Teachers Press, Inc.

NORTH CAROLINA COURSE OF STUDY CORRELATED TO
MOVING WITH MATH® MIDDLE/HIGH (MH) GRADE 8

8/06

	MH1 *Number Sense, Reasoning, & Data* Student Book Skill Builders (SB)	MH2 *Fractions & Decimals* Student Book Skill Builders (SB)	MH3 *Percent & Probability* Student Book Skill Builders (SB)	MH4 *Geometry & Measurement* Student Book Skill Builders (SB)	MH5 *Algebra* Student Book Skill Builders (SB)
STRANDS: NUMBER AND OPERATIONS, MEASUREMENT, GEOMETRY, DATA ANALYSIS AND PROBABILITY, ALGEBRA					
Competency Goal 1: The learner will understand and compute with real numbers.					
1.01 Develop number sense for the real numbers.	8 **SB:** 1-3	55 **SB:** 65-1			27
a. Define and use irrational numbers		55 **SB:** 65-1			
b. Compare and order.	8	55 **SB:** 65-1			
c. Use estimates of irrational numbers in appropriate situations.					

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1.02 Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.	46, 49, 51-54 **SB:** 10-2, 43-8, 43-10, 43-11, 43-13	22, 23, 35, 58, 64, 71-74	**SB:** 28-8, 43-1		
Competency Goal 2: The learner will understand and use measurement concepts.					
2.01 Determine the effect on perimeter, area, or volume when one or more dimensions of two- and three-dimensional figures are changed.				49, 51, 64 **SB:** 62-2, 63-1	
2.02 Apply and use concepts of indirect measurement.				46, 77(T.G.)	
Competency Goal 3: The learner will understand and use properties and relationships in geometry.					
3.01 Represent problem situations with geometric models.				29, 30, 37, 50-52 **SB:** 46-2, 62-2, 63-1	
3.02 Apply geometric properties and relationships, including the Pythagorean Theorem, to solve problems.				34, 35 **SB:** 54-2, 54-3	

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3.03	Identify, predict, and describe dilations in the coordinate plane.				SB: 53-3	
	Competency Goal 4: The learner will understand and use graphs and data analysis.					
4.01	Collect, organize, analyze, and display data (including scatterplots) to solve problems.	63-68, 71-77 **SB:** 45-5, 45-6, 67-1, 68-4, 68-7, 70-1				
4.02	Approximate a line of best fit for a given scatterplot; explain the meaning of the line as it relates to the problem and make predictions.	75				
4.03	Identify misuses of statistical and numerical data.	77 (T.G.)				
	Competency Goal 5: The learner will understand and use linear relations and functions.					
5.01	Develop an understanding of function.	70 **SB:** 42-3, 60-1				60 **SB:** 60-1, 60-5
a.	Translate among verbal, tabular, graphic, and algebraic representations of functions.	61, 70 **SB:** 42-3, 60-1				60-64, 68 **SB:** 60-1, 60-5

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b.	Identify relations and functions as linear or nonlinear.					
c.	Find, identify, and interpret the slope (rate of change) and intercepts of a linear relation.					77
d.	Interpret and compare properties of linear functions from tables, graphs, or equations.	70 **SB:** 42-3, 60-1				60-64, 68 **SB:** 60-5
5.02	Write an equation of a linear relationship given: two points, the slope and one point on the line, or the slope and y-intercept.					
5.03	Solve problems using linear equations and inequalities; justify symbolically and graphically.					46-48, 53-55 **SB:** 50-5
5.04	Solve equations using the inverse relationships of addition and subtraction, multiplication and division, squares and square roots, and cubes and cube roots.	9, 10, 23 **SB:** 1-1				41-45 **SB:** 50-2, 50-3